Owner's Guide

CASCADE®
POST BOX

a-dec®

85.2615.00

Warranty Information	
Serial Number	N/A
Model Number	N/A
Date Purchased	

Date of Service	Model/Description of Service	Technician's Initials

For service information contact your local authorized A-dec dealer.

Check with local codes and A.D.A. (Americans with Disabilities Act) requirements for installation of this product.

A-dec warrants its products and A-dec/W&H Synea handpieces against defects in material or workmanship for one year from time of delivery. All other handpiece instrumentation has a warranty period of six months. A-dec's sole obligation under the warranty is to provide parts for the repair, or at its option, to provide the replacement product (excluding labor). The buyer shall have no other remedy. (All special, incidental, and coincidental damages are excluded.) Written notice of breach of warranty must be given to A-dec within the warranty period. The warranty does not cover damage resulting from improper installation or maintenance, accident or misuse.The warranty does not cover damage resulting from the use of cleaning, disinfecting or sterilization chemicals and processes. The warranty also does not cover light bulbs. Failure to follow instructions provided in A-dec's Operation and Maintenance Instructions (Owner's Guide) may void the warranty.

NO OTHER WARRANTIES AS TO
MERCHANTABILITY OR OTHERWISE ARE MADE.

a-dec®

All product names used in this document are trademarks or registered trademarks of their respective holders.

Printed in U.S.A. • Copyright © 1999 • All Rights Reserved

Cascade Post Box
(with optional Cuspidor)

CONTENTS

Service information and warranty information are located on the inside front cover and front page.

About Your Cascade Post Box 2
Removing Side Covers 3
Air/Water Connections 4
Inline Tubing Connections 5
Bowl Rinse and Cup Fill Water Flow Adjustment Controls 6
Electrical 7
Leveling Adjustment 8
Side Cover Adjustment 10
Care Instructions 11
Maintenance 12
Adjustments and Specifications 12
Identification of Symbols 13
Classification of Equipment (EN 60601-1) ... 13

About Your Cascade Post Box

The Cascade Post Box *(see Figure 1)* contains utility connections between the floor box and other A-dec products such as the control head, foot control, light, cuspidor, or assistant's instrumentation. The leveling mechanism is also housed within the post box. Depending on the options chosen, the post box may also contain a solids separator, a recessed location for a self-contained water system and quick disconnect (QD) outlets for the hydrocolloid, air, or scaler.

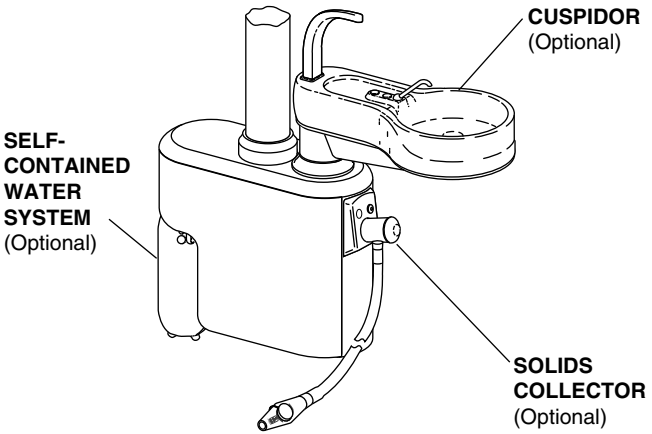

Figure 1. Post Box

The post box is made from materials which resist chipping, stains and chemicals commonly used in the operatory.

Enclosed on the air and water side of the post box are the inline tubing connections for air and water supply lines *(see Figure 4 on page 5)*. If your unit has the optional cuspidor, you will find the flow adjustment controls for the cuspidor bowl rinse and cup fill on this side.

The electrical side of the post box *(see Figure 6 on page 7)* contains a variety of electrical connections. The type and number of connections depend on the options you have selected. Connections may include those from the floor box to a dental light, the cuspidor safety switch, an intra-oral light source handpiece, a low voltage water heater/heated syringe tubing, a curing light, or a scaler. If your unit has the touch control, the connection from the chair to the touch control on the control head will be located on this side.

Some international units have a larger size post box to enclose a dry vacuum separator.

Removing Side Covers

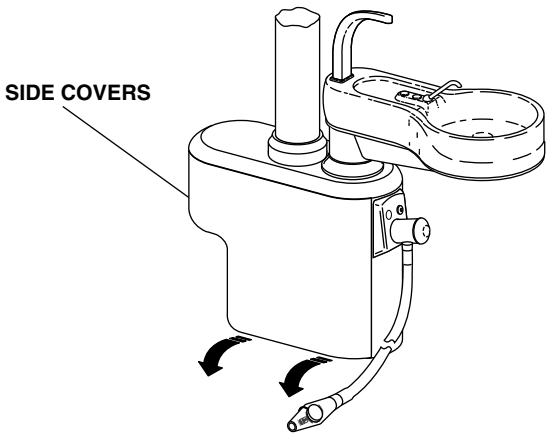

Figure 2. Removing Side Covers

To remove a side cover, insert your fingers under the lower edge of the cover and pull out and down on the cover *(see Figure 2)*.

To replace the cover, insert the upper edge of the cover into the groove, align the studs on the inside of the cover with the spring clips on the post box and snap the cover into place.

Air/Water Connections

Air and water connections *(see Figure 3)* are located on one side of the post box. On a right-hand delivery system, these air and water connections will be on the left.

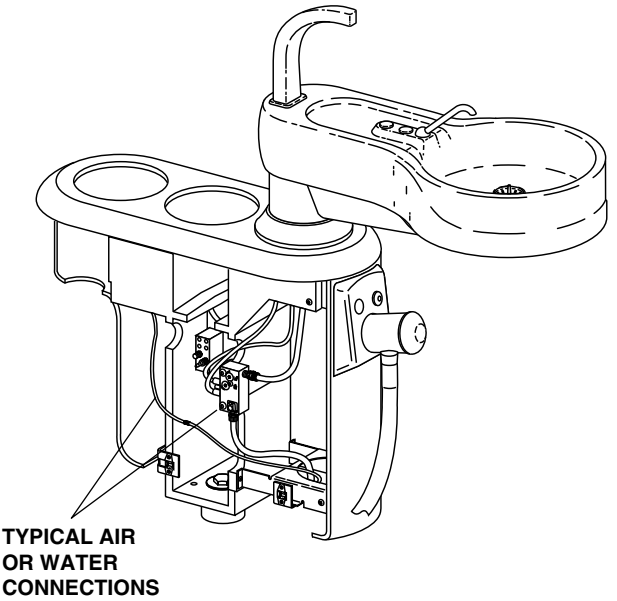

Figure 3. Air/Water Connections

Inline Tubing Connections

Tubing from the floor box is channeled through the umbilical to the post box where this tubing is attached using inline connectors to the tubing coming from the control head, foot control, cuspidor, or assistant's instrumentation.

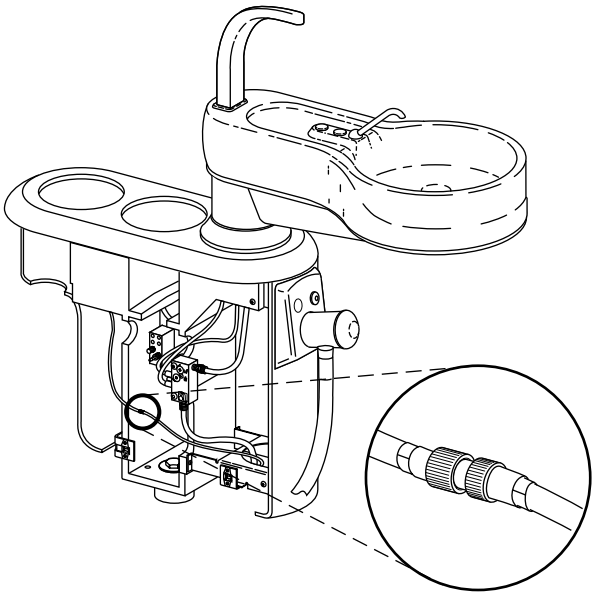

Figure 4. Inline Connections

Bowl Rinse and Cup Fill Water Flow Adjustment Controls

If you have chosen the cuspidor option, the controls to adjust the flow of water to the bowl rinse and cup fill will be located on the air/water side of your post box *(see Figure 5)*. Complete instructions for making water flow adjustments are included in **Cascade 7284 and Radius® 7285 Cuspidor Owner's guide**, *A-dec Publication No. 85.2609.00*.

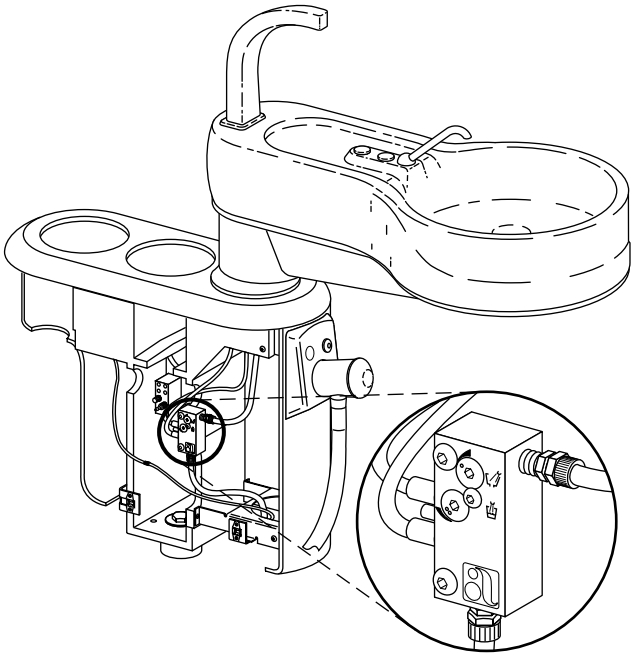

Figure 5. Flow Adjustment Controls

Electrical

Warning

Only an authorized A-dec dealer should service, make repairs or adjustments to electrical components on this side of the post box.

The electrical side of the post box *(see Figure 6)* contains a variety of electrical connections. Depending on the options selected, the electrical connections may include those from the chair to the touch control on the control head or from the floor box to the dental light, intra-oral light source, low voltage water heater/heated syringe tubing, curing light, scaler, or cuspidor safety switch.

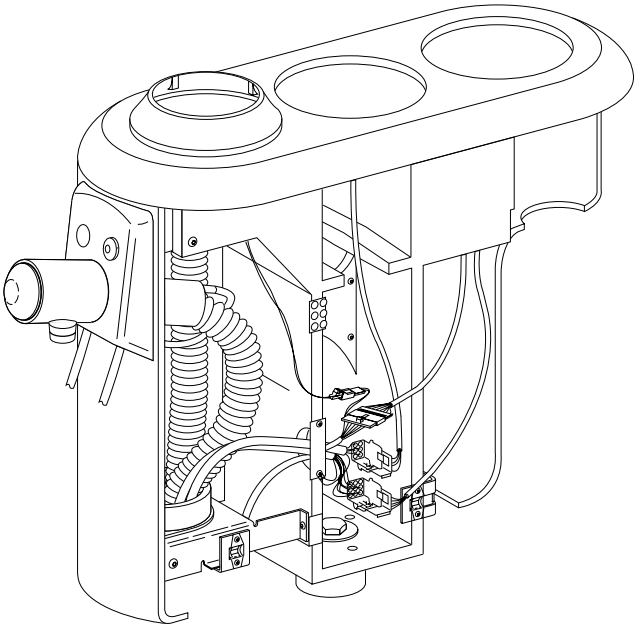

Figure 6. Electrical Side of Housing

Leveling Adjustment

Your post box should be leveled during installation. However, if adjustment becomes necessary, remove the side cover *(refer to page 3)*. Then proceed as follows:

1. Using a 15/16-inch open end or socket wrench, loosen the center bolt *(see Figure 7)* approximately three turns so the post box will wobble.
2. Place a magnetic bubble level on the post. Move the level so that you check the level parallel and perpendicular to the chair.

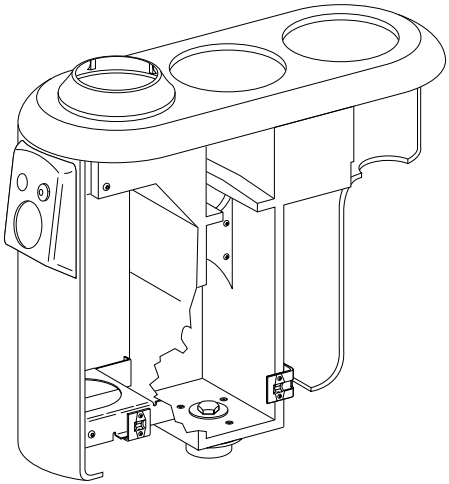

Figure 7. Leveling Mechanism

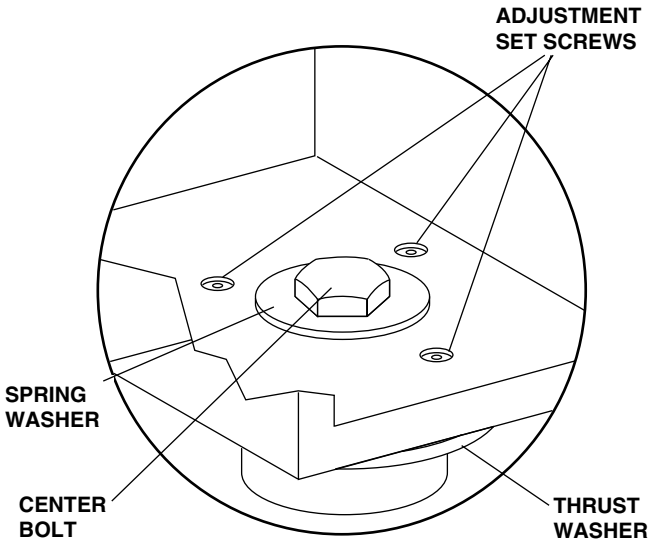

Figure 8. Leveling Adjustment

3. Using a 3⁄16-inch hex key, adjust the three setscrews *(see Figure 8)* until the unit is level. Make sure the setscrews are adjusted so all three contact the thrust washer located between the bottom of the post box and the unit mount.
4. Tighten the center bolt so it is snug and the spring washer *(see Figure 8)* is flattened. When properly adjusted, the post box will be level and will not wobble.

Side Cover Adjustment

The side covers on your post box should be adjusted at the time of installation. If the covers become too loose or too tight, you may adjust them. To make the adjustment, remove the side cover *(refer to page 3)* and locate the adjustment brackets *(see Figure 9)*.

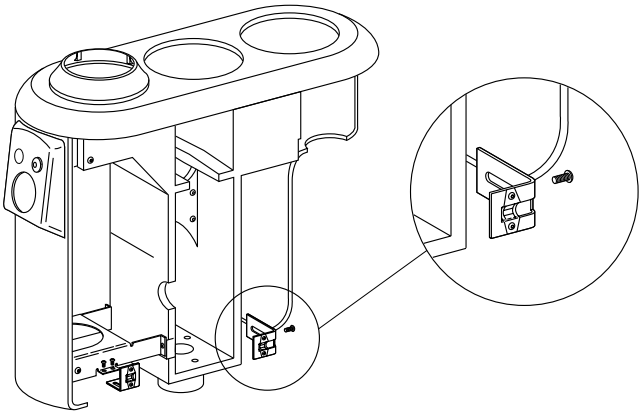

Figure 9. Side Cover Adjustment

Visually determine how much of an adjustment is needed. Use a 1⁄8-inch hex key to loosen the screws on the side adjustment *(see Figure 9)*, slide the bracket to the proper position and retighten the screw.

Use a Phillips screw driver to loosen the screws on the bottom of the front bracket *(see Figure 9)*, slide the bracket to the proper position and retighten the screws.

Care Instructions

For recommended asepsis instructions, refer to ***Equipment Asepsis*** (*A-dec Publication No. 85.0696.00).*

Maintenance

Care Instructions
Equipment Asepsis
Owner's Guide *85.0696.00*
Parts
Maintenance Parts
Owner's Guide *85.2634.00*
Power Supplies
Floor Boxes
Owner's Guide *85.2611.00*

Adjustments and Specifications

Water Flow Adjustments (for optional cuspidor)
Cascade 7284 and Radius 7285 Cuspidor
Owner's Guide *85.2609.00*
Leveling Adjustment.....*page 8*
Side Cover Adjustment .....*page 10*

Minimum air, water and vacuum service requirements for proper unit operation:
Air: 2.50 cfm (70.80 l/min) at 80 psi (551 kPa).
Water: 1.50 gpm (5.68 l/min) at 40 psi (276 kPa).
Vacuum: 12 cfm (339.84 l/min) at 8 inches of mercury (27 kPa).
If mounting a non-A-dec light, nominal acceptable weight is 12 lbs (5.44 kg).
Maximum unit weight: 160 lbs (72.58 kg).
Maximum moment at the unit mount arm created by the freestanding unit is 250 ft-lbs (339 N·m) along the axis of the post box.

Specifications are subject to change without notice.

Identification of Symbols

Recognized by Underwriters Laboratories Inc. ® with respect to electric shock, fire and mechanical hazards only in accordance with UL 2601-1. Recognized with respect to electric shock, fire, mechanical and other specified hazards only in accordance with CAN/CSA C22.2, No. 601.1.

UL listed to US (UL 544) and Canadian (CAN/CSA C22.2, No. 125) safety standards.

Classified by Underwriters Laboratories Inc. ® with respect to electric shock, fire and mechanical hazards only in accordance with UL 2601-1. Classified with respect to electric shock, fire, mechanical and other specified hazards only in accordance with CAN/CSA C22.2, No. 601.1.

Conforms to European Directives *(refer to Declaration Statement)*

Protective earth (ground).

Functional earth (ground).

Attention, consult accompanying documents.

TYPE B APPLIED PART.

CLASS II EQUIPMENT.

Classification of Equipment (EN 60601-1)

Type of shock protection:

CLASS I EQUIPMENT
(Dental Chairs, Dental Lights, & Power Supplies)

CLASS II EQUIPMENT
(Chair, Wall, & Cart Mounted Delivery Systems)

Degree of shock protection:
TYPE B APPLIED PART (All products)

Degree of protection against water ingress:

ORDINARY EQUIPMENT (All products)

Mode of operation
CONTINUOUS OPERATION
(All models except Dental Chairs)

Mode of operation
CONTINUOUS OPERATION
WITH INTERMITTENT LOADING (Dental Chairs)

Notes

a-dec®

2601 Crestview Drive
Newberg, Oregon 97132 U.S.A.
Telephone 1-800-547-1883
(503) 538-7478
Fax (503) 538-0276

a-dec
international, inc.

Designated Representative's Address:
A-dec Dental U.K., Ltd.
Austin House
11 Liberty Way
Attleborough Fields Industrial Estate,
Nuneaton, Warwickshire,
England CV11 6RZ
Telephone: 0800-ADECUK (233285) Within UK
00 44 24 7635 0901 Outside UK
Fax: 00 44 24 7634 5106

Designated Representative's Address:
A-dec Australia
41-43 Bowden Street
Alexandria, N.S.W. 2015, Australia
Telephone: (61) 1.800.225010 within Australia
00612-9699-4600 outside Australia
Fax: 00612-9699-4700

85.2615.00
1999-09 Rev G
(01781)

Made with 50% waste paper

Printed in USA.
Copyright © 1999,
All Rights Reserved.